

10035421\_LIST

PLUS Search Results for S/N 10035421  
Searched October 10, 2002

5316728  
5955371  
4935347  
4512388  
5749231  
5224375  
5858489  
5524706  
4143524  
5948302  
6288273  
4344976  
4963146  
5026381  
5035065  
5590478  
4080957  
6089934  
5276966  
4412429  
5716353  
5435155  
5394706  
5537832  
5575160  
4307578  
5741463  
4262658  
4296612  
4442679  
4466256  
4475354  
4509344  
4780285  
4932468  
4970869  
5598720  
5707230  
5778942  
5785093  
5795788  
5863715  
6159744  
3651813  
3893507

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3782451  
4276048  
4286436  
4294078  
4323115  
4335581  
4341085  
4375765  
4377168  
4385658  
4403645  
4421160  
4423638  
4452302  
4468930  
4519448  
4532985  
4541248  
4557252  
4559997  
4564064  
4567942  
4570702  
4572287  
4579171  
4756164  
4831831  
4909309  
4928493  
4951739  
5001721  
5003784  
5054298  
5259213  
5317883  
5363660  
5370828  
5373974  
5374299  
5413091  
5423378  
5549219  
5978697  
6030588  
6054165  
6178770  
6230511  
6342184

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4347671  
4258729  
4333483  
6148536  
5665068  
5958778  
6055845

10035421\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10035421 on October 10, 2002

Original Classifications

6	165/118
5	62/123
3	62/434
3	62/59
2	34/92
2	62/124
2	62/544
2	62/71
2	138/178
2	165/10
2	422/70
2	436/180
2	606/152

Cross-Reference Classifications

6	165/142
5	62/123
5	165/141
4	62/430
4	62/59
4	165/10
4	165/104.17
3	62/354
3	62/532
3	165/104.11
3	165/115
3	165/175
3	165/DIG 170
3	165/DIG 171
3	261/153
2	29/890.043
2	62/160
2	62/330
2	62/434
2	62/435
2	62/437
2	62/541
2	62/544
2	126/400
2	126/640
2	137/13
2	138/DIG 7
2	165/104.21

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2 165/108  
2 165/109.1  
2 165/157  
2 165/158  
2 165/163  
2 165/236  
2 165/905  
2 165/914  
2 165/94  
2 261/112.1  
2 422/100  
2 422/102  
2 422/110  
2 422/138  
2 422/82  
2 435/288.1  
2 436/178  
2 436/180  
2 604/416

Combined Classifications

10 62/123  
7 62/59  
7 165/118  
6 165/10  
6 165/142  
5 62/434  
5 165/141  
4 62/430  
4 62/544  
4 165/104.11  
4 165/104.17  
4 165/115  
4 436/180  
3 34/92  
3 62/354  
3 62/532  
3 62/71  
3 165/175  
3 165/94  
3 165/DIG 170  
3 165/DIG 171  
3 261/153  
3 422/102  
3 422/70  
2 29/890.043  
2 62/124  
2 62/160

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2 62/238.6  
2 62/324.1  
2 62/330  
2 62/435  
2 62/437  
2 62/541  
2 62/542  
2 126/400  
2 126/588  
2 126/640  
2 137/13  
2 138/178  
2 138/DIG 7  
2 165/104.21  
2 165/108  
2 165/109.1  
2 165/157  
2 165/158  
2 165/163  
2 165/236  
2 165/46  
2 165/79  
2 165/905  
2 165/914  
2 261/112.1  
2 422/100  
2 422/101  
2 422/110  
2 422/138  
2 422/82  
2 435/288.1  
2 436/161  
2 436/178  
2 604/416  
2 606/152  
2 606/22

10035421\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10035421 on October 10, 2002

10	62/123	(5 OR, 5 XR)
	Class 062 :	REFRIGERATION
	62/123	SEPARATOR FOR SOLIDIFIED CONSTITUENT OF LIQUID MIXTURE
7	62/59	(3 OR, 4 XR)
	Class 062 :	REFRIGERATION
	62/56	PROCESSES
	62/59	.Accumulating holdover ice in situ
7	165/118	(6 OR, 1 XR)
	Class 165 :	HEAT EXCHANGE
	165/110	WITH FIRST FLUID HOLDER OR COLLECTOR OPEN TO SECOND FLUID
	165/115	.Trickler
	165/118	..Vertical cone or drum
6	165/10	(2 OR, 4 XR)
	Class 165 :	HEAT EXCHANGE
	165/4	REGENERATOR
	165/10	.Heat collector
6	165/142	(0 OR, 6 XR)
	Class 165 :	HEAT EXCHANGE
	165/142	SPUR TUBE PROJECTS INTO ENCLOSURE
5	62/434	(3 OR, 2 XR)
	Class 062 :	REFRIGERATION
	62/430	INTERMEDIATE FLUID CONTAINER TRANSFERRING HEAT TO HEAT ABSORBER OR HOLDOVER
	62/434	.Flow line connected transfer fluid supply and heat exchanger
5	165/141	(0 OR, 5 XR)
	Class 165 :	HEAT EXCHANGE
	165/140	THREE NON-COMMUNICATING FLUIDS
	165/141	.Concentric flow chambers
4	62/430	(0 OR, 4 XR)
	Class 062 :	REFRIGERATION
	62/430	INTERMEDIATE FLUID CONTAINER TRANSFERRING HEAT TO HEAT ABSORBER OR HOLDOVER

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- 4 62/544 (2 OR, 2 XR)  
     Class 062 : REFRIGERATION  
     62/56 PROCESSES  
     62/532 .Fractionally solidifying a constituent and  
             separating the same  
     62/544 ..With stirring, agitating or scraping of the  
             solidification zone
- 4 165/104.11 (1 OR, 3 XR)  
     Class 165 : HEAT EXCHANGE  
     165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
                 RECEIVING AND DISCHARGING HEAT
- 4 165/104.17 (0 OR, 4 XR)  
     Class 165 : HEAT EXCHANGE  
     165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
                 RECEIVING AND DISCHARGING HEAT  
     165/104.15 .Solid fluent heat exchange material  
     165/104.17 ..Utilizing change of state
- 4 165/115 (1 OR, 3 XR)  
     Class 165 : HEAT EXCHANGE  
     165/110 WITH FIRST FLUID HOLDER OR COLLECTOR OPEN TO  
             SECOND FLUID  
     165/115 .Trickler
- 4 436/180 (2 OR, 2 XR)  
     Class 436 : CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL  
                 TESTING  
     436/174 INCLUDING SAMPLE PREPARATION  
     436/180 .Volumetric liquid transfer
- 3 34/92 (2 OR, 1 XR)  
     Class 034 : DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS  
     34/523 APPARATUS  
     34/92 .Vacuum
- 3 62/354 (0 OR, 3 XR)  
     Class 062 : REFRIGERATION  
     62/340 MEANS PRODUCING SHAPED OR MODIFIED CONGEALED  
             PRODUCT  
     62/353 .Heat absorber with product remover  
     62/354 ..Moving scraper
- 3 62/532 (0 OR, 3 XR)  
     Class 062 : REFRIGERATION  
     62/56 PROCESSES



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62/532 .Fractionally solidifying a constituent and  
separating the same

3 62/71 (2 OR, 1 XR)  
Class 062 : REFRIGERATION  
62/56 PROCESSES  
62/66 .Congealing flowable material, e.g., ice makin

g

62/71 ..Removing product from congealing surface

3 165/175 (0 OR, 3 XR)  
Class 165 : HEAT EXCHANGE  
165/172 SIDE-BY-SIDE TUBULAR STRUCTURES OR TUBE  
SECTIONS  
165/173 .With manifold type header or header plate  
165/175 ..Inlet and outlet header means

3 165/94 (1 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/94 WITH SCRAPER REMOVING PRODUCT FROM TEMPERATURE  
MODIFYING SURFACE

3 165/DIG 170 (0 OR, 3 XR)  
Class 165 : HEAT EXCHANGE  
165/DIG 163 INCLUDING A MEANS TO FORM FLUID FILM ON HEAT  
TRANSFER SURFACE (E.G., TRICKLE)  
165/DIG 168 .Film formed on interior surface of container  
or pipe  
165/DIG 169 ..Inside of vertical pipe  
165/DIG 170 ...Distributor "cap" mounted in top end of pip

e

3 165/DIG 171 (0 OR, 3 XR)  
Class 165 : HEAT EXCHANGE  
165/DIG 163 INCLUDING A MEANS TO FORM FLUID FILM ON HEAT  
TRANSFER SURFACE (E.G., TRICKLE)  
165/DIG 171 .Including means at top end of vertical pipe t

o

distribute liquid film on pipe exterior

3 261/153 (0 OR, 3 XR)  
Class 261 : GAS AND LIQUID CONTACT APPARATUS  
261/127 WITH EXTERNAL SUPPLY OR REMOVAL OF HEAT  
261/152 .Heat exchange means at or downstream of  
contact zone  
261/153 ..Gas exposed liquid body or sheet contacting

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heat exchanger

- 3 422/102 (1 OR, 2 XR)  
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
DEODORIZING, PRESERVING, OR STERILIZING  
422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV  
E  
LABORATORY DEVICE  
422/99 .Miscellaneous laboratory apparatus and  
elements, per se  
422/102 ..Container
- 3 422/70 (2 OR, 1 XR)  
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
DEODORIZING, PRESERVING, OR STERILIZING  
422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV  
E  
LABORATORY DEVICE  
422/68.1 .Means for analyzing liquid or solid sample  
422/69 ..Sorption testing  
422/70 ...Liquid chromatography
- 2 29/890.043 (0 OR, 2 XR)  
Class 029 : METAL WORKING  
29/592 METHOD OF MECHANICAL MANUFACTURE  
29/890.03 .Heat exchanger or boiler making  
29/890.043 ..Tube joint and tube plate structure
- 2 62/124 (2 OR, 0 XR)  
Class 062 : REFRIGERATION  
62/123 SEPARATOR FOR SOLIDIFIED CONSTITUENT OF LIQUID  
MIXTURE  
62/124 .With heater for liquid mixture container
- 2 62/160 (0 OR, 2 XR)  
Class 062 : REFRIGERATION  
62/132 AUTOMATIC CONTROL  
62/159 .Selective heating or cooling  
62/160 ..Reversible cycle machine
- 2 62/238.6 (1 OR, 1 XR)  
Class 062 : REFRIGERATION  
62/238.1 DISPARATE APPARATUS UTILIZED AS HEAT SOURCE OR  
ABSORBER  
62/238.6 .With vapor compression system
- 2 62/324.1 (1 OR, 1 XR)  
Class 062 : REFRIGERATION

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62/324.1 REVERSIBLE, I.E., HEAT PUMP

S

2 62/330 (0 OR, 2 XR)  
     Class 062 : REFRIGERATION  
     62/330 WITH REFRIGERANT OR COOLANT MANUFACTURING MEAN

2 62/435 (0 OR, 2 XR)  
     Class 062 : REFRIGERATION  
     62/430 INTERMEDIATE FLUID CONTAINER TRANSFERRING HEAT  
             TO HEAT ABSORBER OR HOLDOVER  
     62/435 .With indirect fluid pump or agitator

2 62/437 (0 OR, 2 XR)  
     Class 062 : REFRIGERATION  
     62/430 INTERMEDIATE FLUID CONTAINER TRANSFERRING HEAT  
             TO HEAT ABSORBER OR HOLDOVER  
     62/437 .Non-liquid heat accumulator

2 62/541 (0 OR, 2 XR)  
     Class 062 : REFRIGERATION  
     62/56 PROCESSES  
     62/532 .Fractionally solidifying a constituent and  
             separating the same  
     62/541 ..With separated constituent recycle

2 62/542 (1 OR, 1 XR)  
     Class 062 : REFRIGERATION  
     62/56 PROCESSES  
     62/532 .Fractionally solidifying a constituent and  
             separating the same  
     62/542 ..Using melted solid to wash solidified  
             constituent

2 126/400 (0 OR, 2 XR)  
     Class 126 : STOVES AND FURNACES  
     126/400 HEAT ACCUMULATOR STRUCTURES

2 126/588 (1 OR, 1 XR)  
     Class 126 : STOVES AND FURNACES  
     126/569 SOLAR HEAT COLLECTOR  
     126/572 .With control means energized in response to  
             actuator stimulated by condition sensor  
     126/583 ..Of fluent medium  
     126/585 ...Temperature responsive  
     126/588 ....Freezing prevention

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2 126/640 (0 OR, 2 XR)  
     Class 126 : STOVES AND FURNACES  
     126/569 SOLAR HEAT COLLECTOR  
     126/634 .With means to convey fluent medium through  
                     collector  
     126/640 ..With storage tank for fluent medium

2 137/13 (0 OR, 2 XR)  
     Class 137 : FLUID HANDLING  
     137/1 PROCESSES  
     137/13 .Affecting flow by the addition of material or  
                     energy

2 138/178 (2 OR, 0 XR)  
     Class 138 : PIPES AND TUBULAR CONDUITS  
     138/178 MISCELLANEOUS

2 138/DIG 7 (0 OR, 2 XR)  
     Class 138 : PIPES AND TUBULAR CONDUITS  
     138/DIG 7 Resins

2 165/104.21 (0 OR, 2 XR)  
     Class 165 : HEAT EXCHANGE  
     165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL  
                     RECEIVING AND DISCHARGING HEAT  
     165/104.19 .Liquid fluent heat exchange material  
     165/104.21 ..Utilizing change of state

2 165/108 (0 OR, 2 XR)  
     Class 165 : HEAT EXCHANGE  
     165/108 RECIRCULATION

2 165/109.1 (0 OR, 2 XR)  
     Class 165 : HEAT EXCHANGE  
     165/109.1 WITH AGITATING OR STIRRING STRUCTURE

2 165/157 (0 OR, 2 XR)  
     Class 165 : HEAT EXCHANGE  
     165/157 CASING OR TANK ENCLOSED CONDUIT ASSEMBLY

2 165/158 (0 OR, 2 XR)  
     Class 165 : HEAT EXCHANGE  
     165/157 CASING OR TANK ENCLOSED CONDUIT ASSEMBLY  
     165/158 .Manifold formed by casing section and tube  
                     sheet of assembly

2 165/163 (0 OR, 2 XR)  
     Class 165 : HEAT EXCHANGE

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165/157 CASING OR TANK ENCLOSED CONDUIT ASSEMBLY  
165/163 .Conduit coiled within casing

- 2 165/236 (0 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/200 WITH TIMER, PROGRAMMER, TIME DELAY, OR  
CONDITION RESPONSIVE CONTROL  
165/201 .Having heating and cooling capability  
165/236 ..Control of heat storage
- 2 165/46 (1 OR, 1 XR)  
Class 165 : HEAT EXCHANGE  
165/46 FLEXIBLE ENVELOPE OR COVER TYPE
- 2 165/79 (1 OR, 1 XR)  
Class 165 : HEAT EXCHANGE  
165/76 WITH REPAIR OR ASSEMBLY MEANS  
165/79 .Positioner or retainer for settable material
- 2 165/905 (0 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/905 MATERIALS OF MANUFACTURE
- 2 165/914 (0 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/914 FILMING
- 2 261/112.1 (0 OR, 2 XR)  
Class 261 : GAS AND LIQUID CONTACT APPARATUS  
261/75 CONTACT DEVICES  
261/108 .Wet baffle  
261/110 ..Liquid-flow control  
261/112.1 ...Film
- 2 422/100 (0 OR, 2 XR)  
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
DEODORIZING, PRESERVING, OR STERILIZING  
422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV  
E  
LABORATORY DEVICE  
422/99 .Miscellaneous laboratory apparatus and  
elements, per se  
422/100 ..Pipette or other volumetric fluid transfer  
means
- 2 422/101 (1 OR, 1 XR)  
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,

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 DEODORIZING, PRESERVING, OR STERILIZING  
 422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV

E

LABORATORY DEVICE  
 422/99 .Miscellaneous laboratory apparatus and  
 elements, per se  
 422/101 ..Including means for separating a constituent

;

e.g., filter, condenser, extractor, etc.

2 422/110 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/105 CONTROL ELEMENT RESPONSIVE TO A SENSED  
 OPERATING CONDITION  
 422/108 .Control element responds proportionally to a  
 variable signal from a sensor  
 422/110 ..Controls flow rate of a material to or from

a

contact zone

2 422/138 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/129 CHEMICAL REACTOR  
 422/131 .Organic polymerization  
 422/138 ..With heat exchanger for reaction chamber or  
 reactants located therein

2 422/82 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV

E

LABORATORY DEVICE  
 422/68.1 .Means for analyzing liquid or solid sample  
 422/81 ..Automated system with sample fluid pressure  
 transport means  
 422/82 ...And means segmenting fluid material

2 435/288.1 (0 OR, 2 XR)  
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY  
 435/283.1 APPARATUS  
 435/287.1 .Including measuring or testing  
 435/288.1 ..Including a bottle, tube, flask, or jar

2 436/161 (1 OR, 1 XR)

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Class 436 : CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL  
TESTING  
436/161 INCLUDING CHROMATOGRAPHY

2 436/178 (0 OR, 2 XR)

Class 436 : CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL  
TESTING

436/174 INCLUDING SAMPLE PREPARATION

436/177 .Liberation or purification of sample or  
separation of material from a sample (e.g.

, filtering,

centrifuging, etc.)

436/178 ..Including use of a solid sorbent,  
semipermeable membrane, or liquid extractio

n

2 604/416 (0 OR, 2 XR)

Class 604 : SURGERY

604/403 CONTAINER FOR BLOOD OR BODY TREATING MATERIAL,  
OR MEANS USED THEREWITH (E.G., NEEDLE FOR

PIERCING

CONTAINER CLOSURE, ETC.)

604/416 .Materials mixed within container

2 606/152 (2 OR, 0 XR)

Class 606 : SURGERY

606/1 INSTRUMENTS

606/151 .Surgical mesh, connector, clip, clamp or band

606/152 ..Connector for nerve endings

2 606/22 (1 OR, 1 XR)

Class 606 : SURGERY

606/1 INSTRUMENTS

606/20 .Cryogenic application

606/22 ..With coolant supply

able 5  
about 1  
abovementioned 5  
abstract 1  
accompany 1  
accompanying 3  
according 7  
accurate 1  
actual 1  
adequate 1  
adequately 2  
adjusted 5  
advantage 1  
after 1  
aims 1  
also 6  
an 17  
and 42  
another 3  
apparatus 28  
apparent 1  
applicant 1  
appropriate 1  
are 16  
around 1  
arranged 2  
arranging 1  
article 2  
arts 1  
as 29  
assembled 1  
assembling 2  
at 11  
atmosphere 2  
attaching 1  
attain 1  
attaining 2  
attains 1  
attention 1  
away 1  
axial 1  
background 1  
basis 1  
be 31  
become 1  
becomes 5  
been 5  
being 6



belongs 1  
below 1  
besides 1  
between 1  
body 6  
both 1  
bottom 3  
brief 1  
bring 1  
brought 1  
bucket 2  
bulk 2  
bundle 1  
bundled 1  
by 24  
can 9  
capacity 1  
capture 1  
care 1  
carry 3  
case 3  
cause 4  
caused 2  
cavity 4  
chamber 18  
choosing 1  
circulate 2  
circulated 2  
circulates 1  
circulating 7  
close 1  
closing 3  
cmp 1  
cold 2  
columnar 1  
columnshaped 1  
communicated 2  
communicates 2  
communicating 1  
communicatively 2  
completed 2  
completely 1  
concentric 6  
concentrically 2  
condition 6  
conducted 1  
configuration 2  
conjunction 1

connected 8  
connecting 3  
consequence 1  
consideration 1  
constantly 1  
constituting 1  
constructed 2  
constructing 2  
construction 4  
contact 2  
content 7  
contiguous 1  
continued 1  
contrary 1  
control 5  
controlled 3  
controls 2  
conventional 3  
cool 4  
cooled 2  
cooling 7  
corresponding 1  
could 1  
cross 1  
crosssection 2  
ct 1  
cut 1  
cylinder 1  
cylindrical 22  
defined 1  
defining 1  
description 2  
desiccated 3  
desiccating 13  
desiccation 5  
design 1  
designing 1  
detail 1  
detailed 2  
developed 2  
diagram 1  
difficult 3  
difficulties 1  
difficulty 2  
dippingly 2  
directly 2  
discharge 1  
discharged 1

disclosure 1  
disposed 2  
disposing 1  
distributed 1  
distributing 1  
distributive 4  
distributively 2  
done 7  
downstream 4  
drawing 5  
dried 8  
drop 1  
dropped 1  
drying 38  
duct 6  
due 2  
during 1  
each 28  
easily 2  
easy 1  
economical 1  
ejected 1  
ejection 4  
elevational 3  
embodiment 1  
end 12  
equalize 1  
equipped 3  
erected 1  
established 1  
estimation 1  
etc 7  
even 3  
every 2  
exchange 1  
exchanger 1  
exhaust 4  
exhaustion 1  
exist 1  
existence 1  
exists 1  
expedient 4  
experimental 1  
explanations 1  
extending 1  
external 2  
fact 1  
failure 1

fed 2  
feed 1  
feeding 3  
field 1  
figtjre 1  
figure 6  
figured 1  
filled 1  
finding 1  
flow 5  
flux 1  
followed 1  
following 3  
foodstuffs 9  
for 32  
foregoing 2  
form 12  
formed 5  
forming 1  
forth 3  
frame 1  
freeze 38  
freezedried 1  
freezedrying 1  
freezing 7  
from 16  
frozen 11  
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function 1  
further 1  
furthermore 1  
guarantee 1  
has 6  
have 2  
having 1  
head 1  
heat 29  
heating 4  
hence 1  
hermetically 1  
hi 1  
hollow 1  
however 2  
hygienic 1  
if 3  
ii 1  
iiaccp 1  
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improvement 1  
in 86  
inconvenient 1  
individual 3  
inlet 8  
inner 16  
installed 1  
installing 1  
interval 2  
into 16  
introduce 1  
introduced 1  
invention 20  
irregular 1  
is 70  
isolated 2  
it 8  
its 15  
jacket 26  
jackets 1  
juxtaposed 9  
juxtaposition 1  
kept 3  
large 1  
layer 5  
leaking 1  
least 1  
liquid 48  
location 1  
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